	70 37 7	
From:	Fredman, Jeffrey	
Sent: To:	Tuesday, August 06, 2002 12:12 PM STIC-Biotech/ChemLib	
Cc:	Chunduru, Suryaprahbha	an Property
Subject:	FW: ref to rush seq search fo SN# 09/786,105	
PLEASE RUS	SH.	
I Approve.		
Jeff Fredman		
Original Me		
From: Sent:	Chunduru, Suryaprahbha Tuesday, August 06, 2002 11:49 AM	
To:	Fredman, Jeffrey	
Subject:	ref to rush seq search fo SN# 09/786,105	
Hi Je I nee case	off, d a rush sequence search on the following. I need your approving is due for this biweek.	val on this rush sequence search since the
1. Ар (Sea	oplication Serial NO. 09/786,105, SEQ ID Nos. 1-4 (primers) rch is requested for all commercial nucleic acid, oligomer and i	ssued patent databases).
Than	k you	
Sury	apiabha Chunduru	
Exan Art I	niner	
Roor	n No. <mark>10006 - ∕</mark>	
	Room No. 10E12. No. 305-1004.	
161. 1		. 1
		•
•		3 × 2
		Point of Contact:  Toby Port  Technical Info. Specialist  CM1 6A04  703-308-3534
		Toby Port
		Technical Info. Specialist CM1 6A04
		703-308-3534 5 B
		÷ • •
		, 4
		,
	•	
•		•
	·	
	TYPE OF SEARCH:	VENDOR/COST (where applic.)
Searcher:	NA Sequences:	STN:
Phone:	AA Sequences:	DIALOG:

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_

AA Sequences: \_\_\_\_\_

Structures: \_\_\_\_\_

Bibliographic: \_\_\_\_\_

Litigation: \_\_\_\_\_

Full text: \_\_\_\_\_

Patent Family: \_\_\_\_\_

Other: \_\_\_\_\_

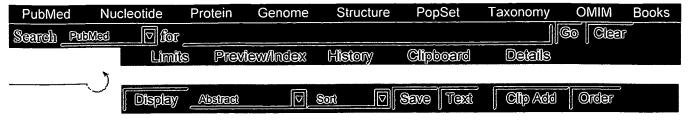
VENDOR/COST (where applic.)
STN:
DIALOG:
Questel/Orbit:
DRLink:
Lexis/Nexis:
Sequence Sys.:
WWW/Internet:
Other (specify):

L Number	Hits		DB	Time stamp
1	8878	primer adj1 design or select\$ adj1 program	USPAT; US-PGPUB; DERWENT	2002/08/12 09:32
2	0	(primer adj1 design or select\$ adj1 program) near5 mycobacteria	USPAT; US-PGPUB; DERWENT	2002/08/12 09:32
3	19	(primer adj1 design or select\$ adj1 program) and mycobacteria	USPAT; US-PGPUB; DERWENT	2002/08/12 09:33









Entrez PubMed ☐1: Nucleic Acids Res 1990 Apr 11;18(7):1757-61

Related Articles, Books, LinkOut

A computer program for selection of oligonucleotide primers for polymerase chain reactions.

Lowe T, Sharefkin J, Yang SQ, Dieffenbach CW.

PubMed Services

Department of Surgery, Uniformed Services University of the Health Sciences, Bethesda, MD 20814.

We have designed a computer program which rapidly scans nucleic acid sequences to select all possible pairs of oligonucleotides suitable for use as primers to direct efficient DNA amplification by the polymerase chain reaction. This program is based on a set of rules which define in generic terms both the sequence composition of the primers and the amplified region of DNA. These rules (1) enhance primer-to-target sequence hybridization avidity at critical 3'-end extension initiation sites, (2) facilitate attainment of full length extension during the 72 degrees C phase, by minimizing generation of incomplete or nonspecific product and (3) limit primer losses occurring from primer-self or primer-primer homologies. Three examples of primer sets chosen by the program that correctly amplified the target regions starting from RNA are shown. This program should facilitate the rapid selection of effective and specific primers from long gene sequences while providing a flexible choice of various primers to focus study on particular regions of interest.

Related Resources

PMID: 1692404 [PubMed - indexed for MEDLINE]



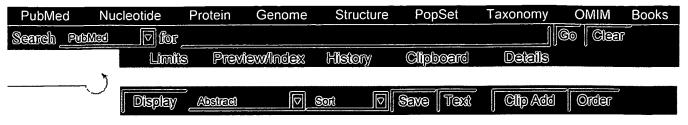
Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

i686-pc-linux-gmi Jul 16 2002 16:34:53









Entrez PubMed ☐1: J Virol Methods 1992 Feb;36(2):119-28

Related Articles, Books, LinkOut

OLIGSCAN: a computer program to assist in the design of PCR primers homologous to multiple DNA sequences.

Montpetit ML, Cassol S, Salas T, O'Shaughnessy MV.

PubMed Services

Federal Centre for AIDS, Health and Welfare Canada, Ottawa, Ontario.

OLIGSCAN (oligonucleotide scanner) is a computer program for IBM-PC-compatible computers that allows the user to scan up to 200 DNA sequences for homology to oligonucleotide sequences of interest. Once a core sequence of longer than the user-defined minimum length is found, the remainder of the oligonucleotide is compared to the corresponding positions of the larger sequence to identify matches or mismatches flanking the core region. This algorithm results in identification of the longest possible homologous regions first. The program was originally designed to assist in the identification of potential annealing sites for polymerase chain reaction (PCR) primers in the genomic DNA of related strains of viruses. However, it may also be used for more general pattern-identification purposes, including scanning for various sequence motifs of functional importance. We present the analysis of homology to an oligonucleotide primer in 16 complete genomic sequences of the human and simian immunodeficiency viruses.

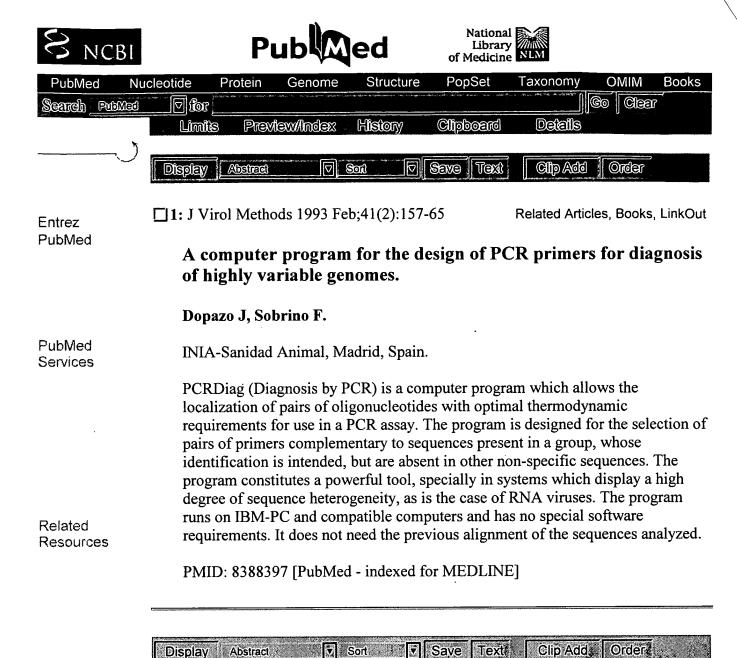
Related Resources

PMID: 1556160 [PubMed - indexed for MEDLINE]



Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

i686-pc-linus-gnu Jul 16 2002 16:34:53



Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

i686-po-linus-gnu Jul 16 2002 16:34:53

L13 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS

AN 1992:167274 CAPLUS

DN 116:167274

TI OSP: a computer program for choosing PCR and DNA sequencing primers

AU Hillier, LaDeana; Green, Philip

CS Sch. Med., Washington Univ., St. Louis, MO, 63110, USA

SO PCR Methods Appl. (1991), 1(2), 124-8
CODEN: PMAPES; ISSN: 1054-9803

DT Journal

LA English

OSP (Oligonucleotide Selection Program) selects oligonucleotide primers AB for DNA sequencing and the polymerase chain reaction (PCR). The user can specify (or use default) constraints for primer and amplified product lengths, %(G+C), (abs. or relative) melting temps., and primer 3' nucleotides. To help minimize nonspecific priming and primer secondary structure, OSP screens candidate primer sequences, using user-specifiable cutoffs, against potential base-pairing with a variety of sequences present in the reaction, including the primer itself, the other primer (for PCR), the amplified product, and any other sequences desired (e.g., repetitive element sequences in genomic templates, vector sequence in cloned templates, or other primer pair sequences in multiplexed PCR reactions). Base-pairing involving the primer 3' end is considered sep. from base-pairing involving internal sequences. Primers meeting all constraints are ranked by a combined score, a user definable weighted sum of any of the above parameters. OSP is being routinely and extensively used to select sequencing primers for the Caenorhabditis elegans genome sequencing project and human genomic PCR primer pairs for the Washington University Genome Center mapping project, with success rates exceeding 96% and 81%, resp. It is available for research purposes from the authors, at no cost, in both text output and interactive graphics (X windows) versions.

- L13 ANSWER 11 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
- AN 1994:251395 BIOSIS
- DN PREV199497264395
- TI A computer-aided selection of oligonucleotide primer for polymerase chain reaction.
- AU Li, Chibo; Wu, Chungen; Zheng, Baofen
- CS Dep. Biophysics, Sch. Basic Med. Sci., Shanghai Med. Univ., Shanghai China
- SO Acta Academiae Medicinae Shanghai, (1994) Vol. 21, No. 2, pp. 143-145. ISSN: 0257-8131.
- DT Article
- LA Chinese
- SL Chinese; English
- AB We have designed a computer program which can scan nucleic acid sequences to select primers for polymerase chain reaction. This program is based on a set of rules for selection primers. These rules include: (1) Primers should contain a GC-type sequence pair at their 3' end; (2) The length of each primer should be between 18 to 24 nucleotides; (3) Each primer should have a GC-type sequence content of between 45% to 60% of its total bases; (4) Limit primer loss occurring from primer-self or primer-primer homologies. We have designed a pair of primers of SRS leukemia virus by this method, and successfully amplified 3.4 kb products of interest. The results satisfied the effectiveness and specificity of primers selected by this method.